

(51) 国際特許分類7
H02P 5/00

A1

(11) 国際公開番号

WO00/17998

(43) 国際公開日

2000年3月30日(30.03.00)

(21) 国際出願番号

PCT/JP99/05064

(22) 国際出願日

1999年9月16日(16.09.99)

(30) 優先権データ

特願平10/264336

1998年9月18日(18.09.98)

JP

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添付公開書類

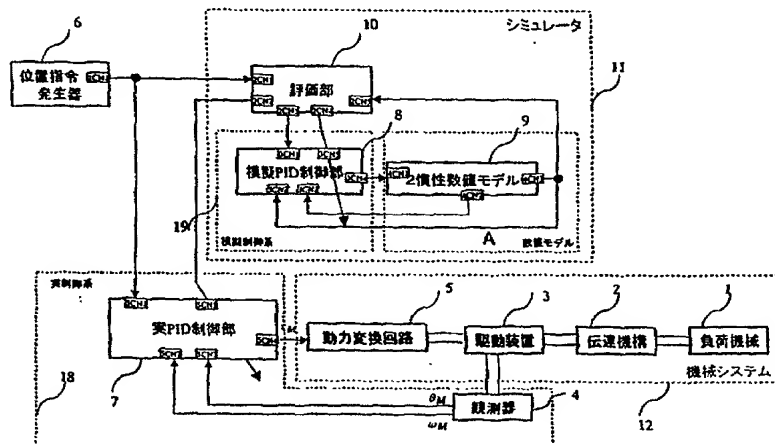
国際調査報告書

(54) Title: MOTOR CONTROLLER

(54) 発明の名称 電動機制御装置

(57) Abstract

A motor controller comprising a machine system (12) having a load machine (1), a transmission mechanism (2) for transmitting power, and a motor for driving the load machine through the transmission mechanism; a simulator unit (11) having a numeric model (9) including the machine system, a simulation control section (19) for giving a torque command to the numeric model by using an observable quantity of state of the numeric model, and an evaluating section (10) for sending a control parameter to the simulation control section and an actual control unit (18) having an actual control section which receives an observable quantity of state of an actual system and has the same structure as that of the simulator unit and adapted to supply a torque signal to the motor serving as a drive source. Therefore the control gain of a motor controller can be automatically adjusted quickly and optimally.



- A ... NUMERIC MODEL
1 ... LOAD MACHINE
2 ... TRANSMISSION MECHANISM
3 ... DRIVE
4 ... OBSERVING INSTRUMENT
5 ... POWER CONVERTING CIRCUIT
6 ... POSITION COMMAND GENERATOR

- 7 ... ACTUAL PID CONTROL SECTION
8 ... SIMULATION PID CONTROL PART
9 ... TWO-INERTIAL NUMERIC MODEL
10 ... EVALUATING SECTION
11 ... SIMULATOR
12 ... MACHINE SYSTEM
18 ... ACTUAL CONTROL SYSTEM
19 ... SIMULATION CONTROL SECTION